

**PB-106**

## Comparison of Yield and Growth Characteristics of New Orchardgrass Lines for Pasture

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### [Introduction]

Orchardgrass has good forage crop for productivity and permanence of pasture but its cultivation area has been reduced to pasture of Korea because of the effect of increasing temperature and irregular rain, Thus, in Korea, improvement of quality and adaptability in Orchardgrass is very important to increase the productivity and to expand the cultivation area. therefore, we bred a new Orchardgrass polycross three lines with high quality and permanence variety in Korea.

### [Materials and Methods]

This study was conducted in the subtropical livestock research institute, National Institute of Animal Science, RDA, Korea. Orchardgrass Five lines were sown in narrow strips in plots 2m by 3m in Randomized block design on 12<sup>th</sup> October 2021 in Jeju experiment field. Winter field survival was checked in early spring. Five Orchardgrass lines were harvested in heading time of variety for evaluating on fresh and dry matter productivity.

### [Results and Discussion]

Plant height of composite 49 was 90 cm and heading date of composite 49 was on 29 April and showed high dry yield (10,745kg/ha) compared to check variety 'Amba'(9,188kg/ha). Heading date of composite 49 was 3 days early than check variety 'Amba'.

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